



National Aeronautics and  
Space Administration  
John H. Glenn Research Center  
Lewis Field

## **Lewis' Educational and Research Collaboration Internship Program**

### **2000 SUMMER INTERNSHIP FOR COLLEGE STUDENTS**

#### **Program Description**

This is an educational program that provides internships for students of science, engineering, professional administrative, and technical areas. Internships of a 10-week duration are available during the summer months at the NASA Glenn Research Center, Cleveland, Ohio. The internships are offered under the auspices of Lewis' Educational and Research Collaborative Internship Program (L.E.R.C.I.P.), a collaborative undertaking by the Office of Educational Programs at the Glenn Research Center and the Ohio Aerospace Institute (OAI).

The internships are intended to provide students with introductory professional experiences to complement their academic programs. Interns are given assignments in research and development, technical, and administrative projects under the personal guidance of NASA professional staff members. The student's academic level and field of interest will be considered in worksite placement. Interns are integrated into the day-to-day activities of the Center to the greatest extent possible. A certain amount of time is devoted to a program of scheduled educational, professional, and social events.

#### **Glenn Research Center (<http://www.grc.nasa.gov>)**

John H. Glenn Research Center at Lewis Field performs research and defines and develops advanced technology for high-priority national needs. Over 3700 people staff Glenn, including civil service, contractor, and visiting personnel, almost half of whom are scientists and engineers. The work of the Center focuses on new aer propulsion, onboard propulsion, aerospace power, and communications technologies for application to aeronautics and space and microgravity science, helping ensure U.S. leadership in these areas.

As the NASA Lead Center for aer propulsion and aerospace power, Glenn Research Center conducts world-class research and develops and transfers technology to U.S. industries. Its aer propulsion program, the Propulsion System Program, plays a significant role in NASA's promotion of economic growth and national security through safe, superior, and environmentally compatible U.S. civil and military aircraft propulsion systems. Its aerospace power program supports all NASA Enterprises and major programs, including the International Space Station, Advanced Space Transportation, and new initiatives in human/robotic exploration and human exploration mission planning. As NASA's designated Center of Excellence in turbomachinery, Glenn's role is to develop new and innovative turbomachinery technology and leveraging its computational, analytical, and experimental expertise in turbomachinery to future aerospace programs.

Located in the Great Lakes region of Ohio, Cleveland, the Glenn Research Center occupies a 350-acre site adjacent to the Cleveland Hopkins International Airport. It provides a campuslike environment with over 150 buildings, including offices, laboratories, wind tunnels, and other research facilities. Cleveland is home to major league sports teams, a world-class orchestra, and several museums.

#### **Available Internship Tenure Dates for 2000:**

<i>Start Dates</i>	<i>End Dates</i>
May 22, 2000	July 28, 2000
June 5, 2000	August 11, 2000
June 19, 2000	August 25, 2000

### ***College Eligibility***

Internships are available only to U.S. citizens who are full-time students pursuing a baccalaureate or higher degree in a field of science, engineering, technology, and professional administration at an accredited college or university throughout the United States and Puerto Rico. College-bound high school graduates or 2-year college students with demonstrable plans to pursue baccalaureate degrees are also eligible. Qualified minority and female students, as well as students with disabilities, are encouraged to apply. Students must have a cumulative GPA of 3.0 on a 4.0 scale.

### ***Application***

Students seeking internships must submit an application to OAI. All students are required to serve a tenure for a period of 10 weeks (see cover page for available start dates). The internships do not provide for vacation time and such time should be scheduled outside the tenure period. Students are required to be present for THE ENTIRE TERM and are not permitted to take any summer classes outside of Glenn during the internship. Students are expected to adhere to the tenure period and dates specified on their application. Application forms or additional information may be obtained by contacting

Ohio Aerospace Institute  
Attn: L.E.R.C.I.P.  
22800 Cedar Point Road  
Cleveland, Ohio 44142  
Telephone: (440) 962-3170 Ext. 5006

**Applications must be received no later than January 31, 2000 to assure consideration.**

#### **A complete application package must include**

1. A completed and **signed** application
2. Transcript(s)
3. Faculty/Teacher endorsement
4. List of courses currently being taken (*Winter/Spring 2000*)
5. Three copies of completed application package

***(Faxed copies are unacceptable)***

All applications received after the deadline will **not** be considered.

### ***College Selection Criteria***

Selection in this program is very competitive and is based on the following:

1. NASA Glenn organizational needs
2. Academic level and relative coursework
3. Performance background and research interests

### ***Salaries***

Interns receive a bi-weekly salary for their appointments. The amount of the salary depends on the academic standing achieved by the student at the time tenure begins. For 2000, the bi-weekly salary payments are

Academic Standing:	Freshman/Sophomore	• Junior/Senior	• Master/Doctoral Student
Amount:	\$ 600	\$ 800	\$ 1200

*The normal statutory withholdings will be withheld. The tax portion withheld will depend on the tax status of each individual.*

### ***Travel Allowances***

One round trip travel reimbursement is provided to students whose city of permanent residence is more than 50 miles from Cleveland and who relocate for the program. Reimbursement is based on shortest-route mileage at 31 cents per mile and is paid after tenure begins. This amount must not exceed \$500.00.

### ***Housing***

Students must make their own housing arrangements. This program does not provide living expenses. If a list of short-term accommodations is desired, check the appropriate box on the signature page. Please understand that the housing list has been assembled for your convenience from responses to newspaper advertisements we have placed in local newspapers for accommodations for our summer visitors. We have not checked these accommodations and do not advocate them over other accommodations you may find on your own.

### ***Schedule***

All selected applicants will be notified by April 15, 2000.

## Lewis' Educational and Research Collaborative Internship Program

## APPLICATION FOR 2000 SUMMER INTERNSHIP

Please type or print in black ink only

Name: \_\_\_\_\_

Social Security Number: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Place of Birth: \_\_\_\_\_

U.S. Citizen ☐ Yes ☐ No

Home Address: \_\_\_\_\_

☐ Work Address☐ School Address

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: (     ) \_\_\_\_\_

Telephone: (     ) \_\_\_\_\_

E-mail Address: \_\_\_\_\_

Please indicate address you would like correspondence mailed to: (Give dates only if both are checked.)

☐ Home From: \_\_\_\_\_ To: \_\_\_\_\_☐ School From: \_\_\_\_\_ To: \_\_\_\_\_

Current School:

☐ High School ☐ College ☐ University Name: \_\_\_\_\_ City, State: \_\_\_\_\_ Date Began: \_\_\_\_\_ Planned Graduation Date: \_\_\_\_\_

\_\_\_\_\_

If you have applied to attend an undergraduate or graduate college/university for the fall 2000, please provide the following:

Planned College or University: \_\_\_\_\_

Field of Study/Targeted Degree: \_\_\_\_\_

Status of Application: \_\_\_\_\_

☐ Pending☐ Accepted

Name

Address

City, State, Zip Code

Check here if you will be a 2000 high school graduating Senior ☐

Cumulative Grade Point Average: \_\_\_\_\_ out of 4.0

(Minimum requirement: GPA 3.0 on a 4.0 scale)

Total credit hours required for graduation: \_\_\_\_\_

Credit hours earned as of May/June 2000: \_\_\_\_\_

Academic Major: \_\_\_\_\_

Academic Level as of Fall 2000: (Check one)

☐ (13) College Freshman (current Grad. H. S. Senior)☐ (14) College Sophomore☐ (15) College Junior☐ (16) College Senior☐ (17) Master Student☐ (18) PhD Student

For placement purposes, please indicate the field in which you would like to intern if positions are available. Please indicate the order of preference if choosing more than one. Please note that we cannot offer internships in medicine, biology, or veterinary medicine.

☐ (1) Aero/Astro Engineering☐ (10) Electrical Engineering☐ (19) Personnel☐ (2) Accounting☐ (11) Environmental Science/Engineering☐ (20) Physics☐ (3) Architecture☐ (12) Graphics☐ (21) Polymers☐ (4) Business Administration☐ (13) Industrial Engineering☐ (22) Procurement☐ (5) Chemical Engineering☐ (14) Materials/Structures☐ (23) Public Affairs☐ (6) Chemistry☐ (15) Math☐ (24) Systems Engineering☐ (7) Civil Engineering☐ (16) Mechanical Engineering☐ (25) Other: \_\_\_\_\_☐ (8) Computer Science/Engineering☐ (17) Nuclear Engineering☐ (9) Education☐ (18) Optics

## OFFICE USE ONLY

Date Received: \_\_\_\_\_

13 14 15 16 17 18

Bi-Weekly Salary: \$ \_\_\_\_\_

Date Processed: \_\_\_\_\_

PR Requirement: \$ \_\_\_\_\_

Background Information

Work Experience: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Special Training or Skills (include major field of study courses): \_\_\_\_\_

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\_\_\_\_\_

Computer Experience: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Honors or Awards: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Hobbies and Interests: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Internship Research/Professional Interests: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Additional Information: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## **Narrative Statement**

In the space below, write a narrative statement that indicates your internship areas of interest, career goals, and the educational plan you intend to use to reach those goals. Also describe how you and NASA will benefit if you are selected for this program.

Requested start date of tenure:

From: \_\_\_\_\_ To: \_\_\_\_\_  
(Date) (Date)

Did you apply for a NASA program in 1999? ☐ Yes ☐ No

Have you previously participated in a NASA or Federal program? ☐ Yes ☐ No

If yes, check any of the following NASA programs you have applied for in 1999 (A) or participated in any time previously (P):

- | (A)                      | (P)                      | (A)  | (P)                      |                          |  |
|--------------------------|--------------------------|--|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | (1) NASA SHARP                               | <input type="checkbox"/> | <input type="checkbox"/> | (6) NASA Student Involvement Program           |
| <input type="checkbox"/> | <input type="checkbox"/> | (2) NASA Plus High School                    | <input type="checkbox"/> | <input type="checkbox"/> | (7) The N.A.S.A. Project at C.C.C.             |
| <input type="checkbox"/> | <input type="checkbox"/> | (3) NASA Glenn Explorers                     | <input type="checkbox"/> | <input type="checkbox"/> | (8) Undergraduate Scholars Awards for Research |
| <input type="checkbox"/> | <input type="checkbox"/> | (4) NASA Glenn Shadowing Program             | <input type="checkbox"/> | <input type="checkbox"/> | (9) Other _____                                |
| <input type="checkbox"/> | <input type="checkbox"/> | (5) NASA Glenn/East Tech Partnership Program |                          |                          |  |

Is any member of your family employed at NASA Glenn Research Center? ☐ Yes ☐ No

If Yes, identify the employee and the relationship: \_\_\_\_\_

References other than the instructor providing written endorsement (name, title, telephone):

1. \_\_\_\_\_
2. \_\_\_\_\_

Please indicate whether a short-term housing list is desired. ☐ Yes ☐ No

Do we have your permission to include your name, address, and phone in a listing to send to students interested in sharing housing? ☐ Yes ☐ No

### Transcripts

**College-bound high school students:** attach a transcript of all high school courses completed and a list of courses currently being taken.

**Undergraduate students:** attach a transcript of all college courses completed and a list of courses currently being taken.

**Graduate students:** attach a complete undergraduate transcript, a transcript of all graduate courses completed, and a list of courses currently being taken.

*Copies of unofficial school transcripts already in your possession are acceptable. It is not necessary to have your school send official transcripts.*

**Selected applicants will be notified by mail by April 15, 2000.**

I certify by my signature below that I understand and agree that any misrepresentation or inaccurate information on this completed application will be cause for disqualification for consideration and from participation in the L.E.R.C.I.P. Internship Program. I also understand that if selected to participate, I must participate for the full duration of the program and failure to do so will result in the immediate termination of my internship.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Completed applications  
should be sent to the following address:

Ohio Aerospace Institute  
Attn: L.E.R.C.I.P.  
Department of Workforce Enhancement  
22800 Cedar Point Road  
Cleveland, OH 44142

## APPLICATION PACKAGE CHECKLIST

Before completing this application, you should read it thoroughly. Special attention should be given to eligibility requirements, dates and deadlines.

Required information: (Check when completed)

- ☐ *Signed and completed application*
- ☐ *Three copies of signed and completed application*
- ☐ *Teacher/Faculty Endorsement*
- ☐ *Transcripts*
- ☐ *List of courses to be taken in Winter/Spring 2000*
- ☐ *Background Survey (optional)*

**ALL COMPLETED AND SIGNED APPLICATIONS MUST BE RECEIVED BY**

**January 31, 2000**

Completed application should be sent to the following address:

Ohio Aerospace Institute  
Attn: L.E.R.C.I.P.  
Department of Workforce Enhancement  
22800 Cedar Point Road  
Cleveland, OH 44142

If you have any questions, please contact  
Ohio Aerospace Institute at  
(440) 962-3170 Ext. 5006

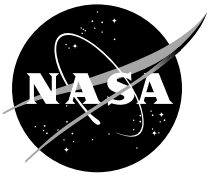
or

NASA Glenn Research Center  
Office of Educational Programs  
(216) 433-6656  
E-mail: [inter@grc.nasa.gov](mailto:inter@grc.nasa.gov)

**Please be advised that incomplete applications will not be processed.**







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Fill in your name on the endorsement form, separate it from the application form and give it, along with the enclosed envelope, to the faculty member who will provide a recommendation based on your academic ability and interpersonal skills. Because the endorsement letter must be returned with the application, set a predetermined date with the faculty member when you can pick up the letter.

## TEACHER/FACULTY ENDORSEMENT

**Student:** \_\_\_\_\_

The above named student is applying for a summer internship at the NASA Glenn Research Center. The internship, if awarded, will provide an opportunity for the student to work with professional staff in an environment not unlike an academic research setting. Your endorsement of the student's participation is requested in consideration of his or her potential to both contribute to and benefit from the experience. You may use the space below or use a separate letter. Student applications must be received no later than **January 31, 2000**.

This form should be returned by the student the with application in the enclosed envelope.

I ☐ **recommend**, I ☐ **do not recommend**, the above student for an internship at the NASA Glenn Research Center.

Name: \_\_\_\_\_  
(Please print)

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

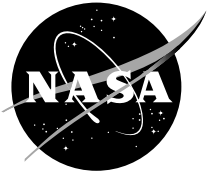
Title: \_\_\_\_\_

Telephone: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**\*\*\* Must be an instructor in applicant's area of expertise \*\*\***





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## BACKGROUND SURVEY

(Completion of this form is optional)

Name: \_\_\_\_\_ School: \_\_\_\_\_

☐ High School    ☐ College    ☐ NASA Scholar    ☐ Teacher

How did you learn of the internship?

- ☐ (a) Previous participation
- ☐ (b) Acquaintance who was a previous participant of this program
- ☐ (c) Inquiry to NASA about summer employment
- ☐ (d) Group visit to the Center
- ☐ (e) Relative who works for NASA or a NASA contractor
- ☐ (f) Acquaintance who works for NASA or NASA contractor
- ☐ (g) Participation in another NASA program
- ☐ (h) Faculty member or school official
- ☐ (i) NASA Homepage
- ☐ (j) Other: \_\_\_\_\_

Please review the categories below and categorize yourself by checking the appropriate items.

- ☐ (1) American Indian or Alaskan Native
- ☐ (2) Asian or Pacific Islander
- ☐ (3) African-American
- ☐ (4) Caucasian
- ☐ (5) Hispanic
- ☐ (6) Other: \_\_\_\_\_

- ☐ (M) Male
- ☐ (F) Female

Disabled: ☐ Yes    ☐ No

If Yes, please indicate disability: \_\_\_\_\_

The information solicited on this form will not be available to those responsible for rating applications but will be used by NASA primarily to determine the extent to which various populations are represented in the applicant pool.